United States of America

Department of Transportation -- Federal Abiation Administration

Supplemental Type Certificate

Number SH7979SW

This certificate issued to

Dart Aerospace USA, Inc., Limited Partnership 2617 Aviation Parkway Grand Prairie, TX 75052

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 29 of the Federal Aviation Regulations.

Original Product -- Type Certificate Number:

H4SW

Make .

Bell

Model:

412/412EP

Description of Type Design Change:

Installation of a nose mounted FLIR 2000 A/B Imager, in accordance with Premier Drawing B32-13002, Revision D, dated 3/7/95, or later FAA approved revision.

Limitations and Conditions.

Compatibility of this modification with previously installed equipment must be determined by installer. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Tederal Aviation Administration.

Date of application: November 08, 1990

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Dale of issuance: April 01, 1991

Date reissued: 4/23/91; 1/17/02

Date amended: November 16, 1995

By directipp of the Administrator

(Signature)
Carl F. Mittag, Manager

Rotorcraft Certification Office,

Southwest Region

(Title)



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NHA	USED ON	MOD	LTR	DESCRIPTION	DATE	APPROVED
STC SH7979SW	412		_	MFG RELEASE	11/10/90	()) •
}			A	ADDED MATL ALTERNATE (SH 10)	11/20/90	
			В	ADD PGS 2A, 9A, 9B/ECO 3839	10/25/93	FIMIL
			С	REVISED PER ECO NO. 3873	12/13/93	MRC
			D	REVISED PER ECO NO. 4045	3/7/94	MC
					•	

NOTES: UNLESS OTHERWISE SPECIFIED

- REMOVE ALL BURRS, BREAK ALL EDGES / CORNERS .015-.031 EXCEPT AS NOTED.
- LENGTH OF AN, MS, NAS & CR RIVETS SHORTER THAN 1.00 ARE NOT SPECIFIED.
- CHEM-FILM (ALODINE) PER MIL-C-5541. PRIME SHEET METAL PARTS WITH MIL-P-23377C EPOXY PRIMER OR MIL-TTP-1757 ZINC CHROMATE.
- PAINT PER ACFT SPECIFICATION.
- HOLE DIA.
- IDENTIFY PARTS PER PREMIER IDENTIFICATION AND MARKING PROCEDURES 115-12112 (PARA. 2.1/2.2).
- FIBERGLASS PER PREMIER SPEC. 008-93001.
- TO AID IN THE INSTALLATION OF THE USE ONLY WATER AS A LUBRICANT (REF MEG HDBK).
- TORQUE TO 30 FT-LBS.

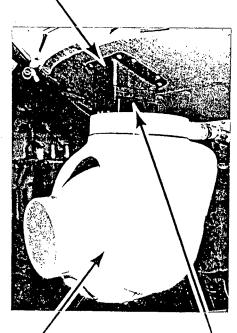
PARTS & HARDWARE CALLOUTS ON FIELD OF DRAWING

WL MILLER 11/6/90	PREMIER AVIATION, INC.			
CHK				
	GRAND PRAIRIE, TEXAS			
$(1) \bullet 11/10/90$	1			
CONTRACT:	FLIR INSTALLATION			
PREMIER APP	SIZE CODE IDENT NO. DWG NO.			
	A NSUV8			
CUST. APP	H 1030 VO D32 13002			
	SCALENONE WT. SHEET 1 OF 11			
	CHK DLR APP 11/10/90 CONTRACT: PREMIER APP			

STC'd PRINT

FWD A

-3| SHROUD .



NOTE:
SEE DETAIL A
FOR CONNECTOR
LOCATION &
MOUNTING
(SEE SHEET 3)

FLIR IMAGER-P/N 64869-192001670 FLIR DOVETALE
BRACKET
P/N 15042800
ATTACHED TO IMAGER
WITH FLIR SUPPLIED
HARDWARE

FLIR IMAGER MOUNTING

FLIR INSTALLATION

SIZE C

CODE IDENT NO. DWG NO. B32-

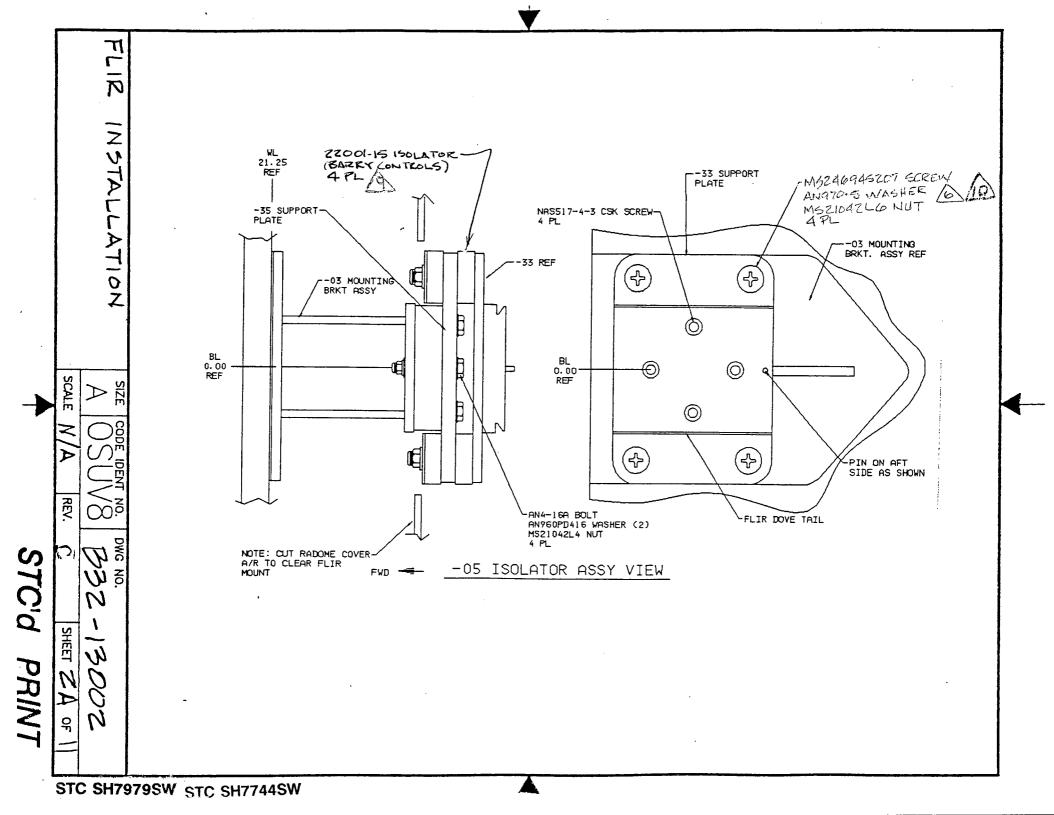
B32-13002

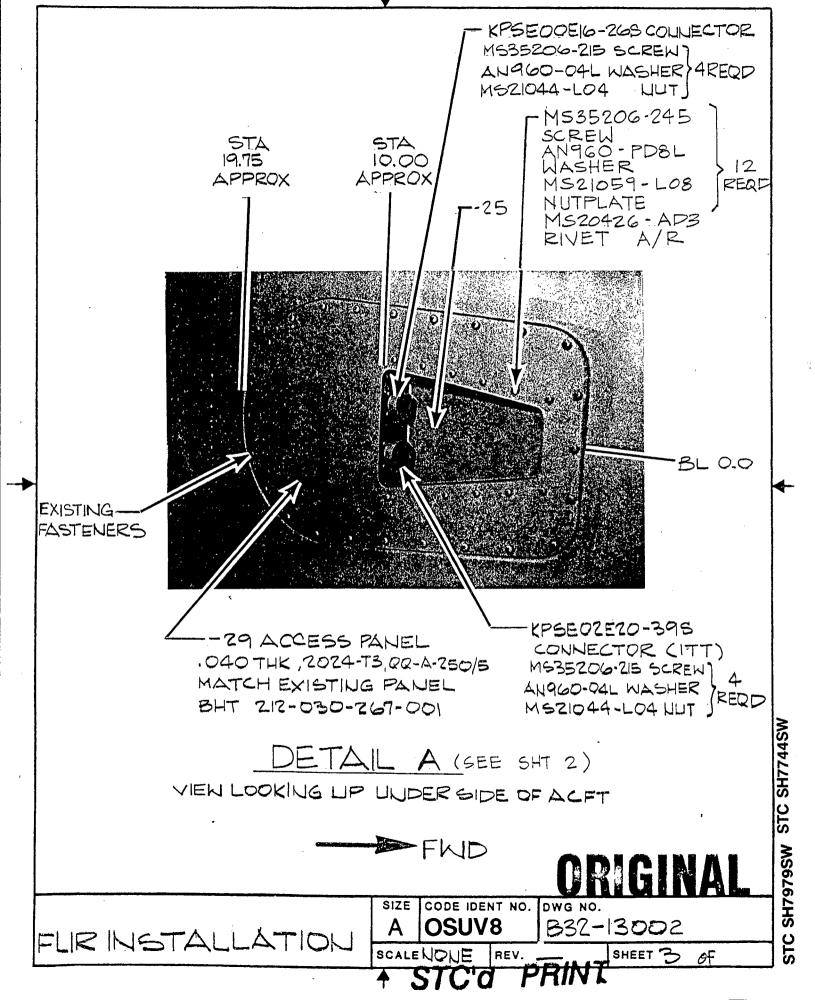
SCALE NONF REV

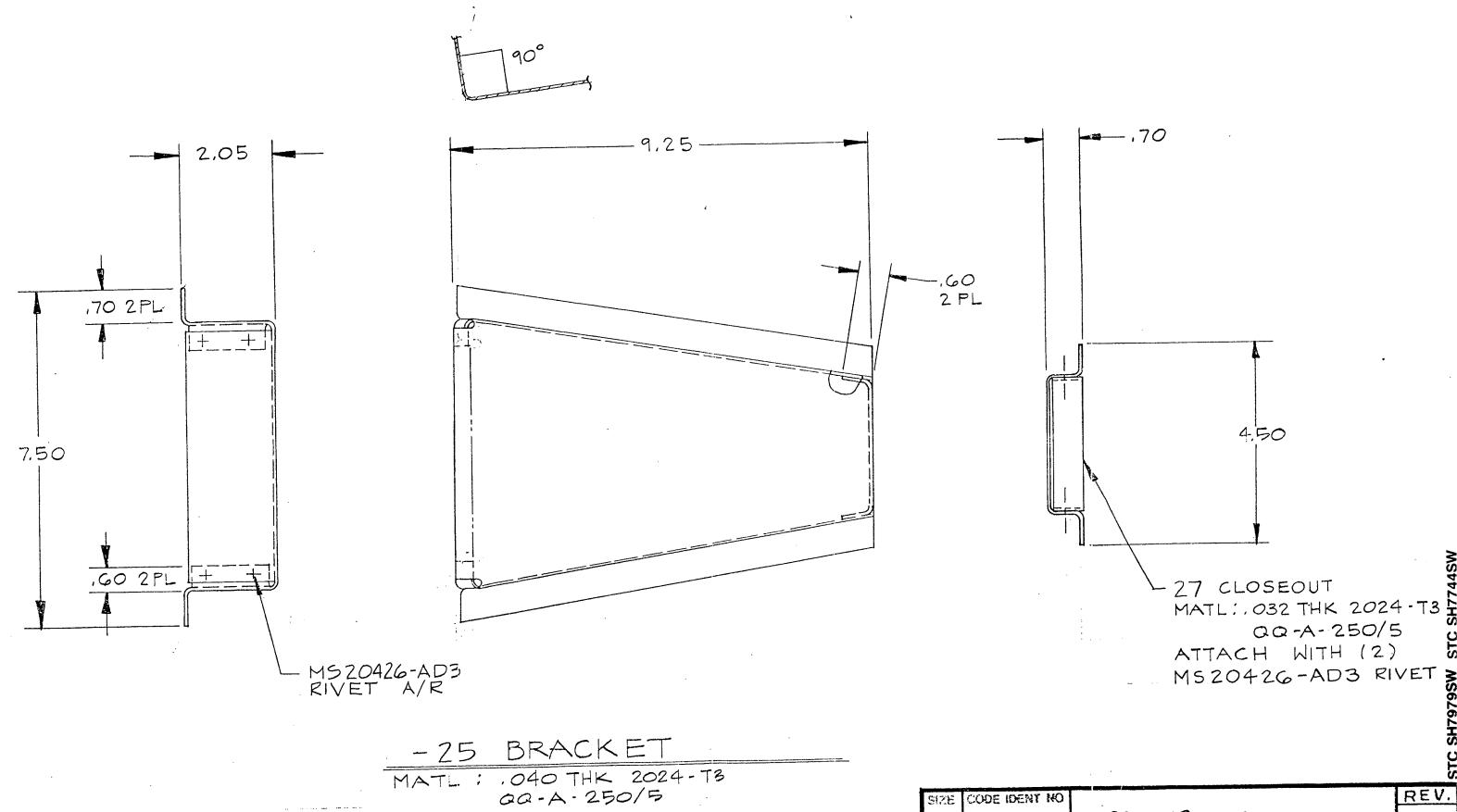
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STC'd PRINT

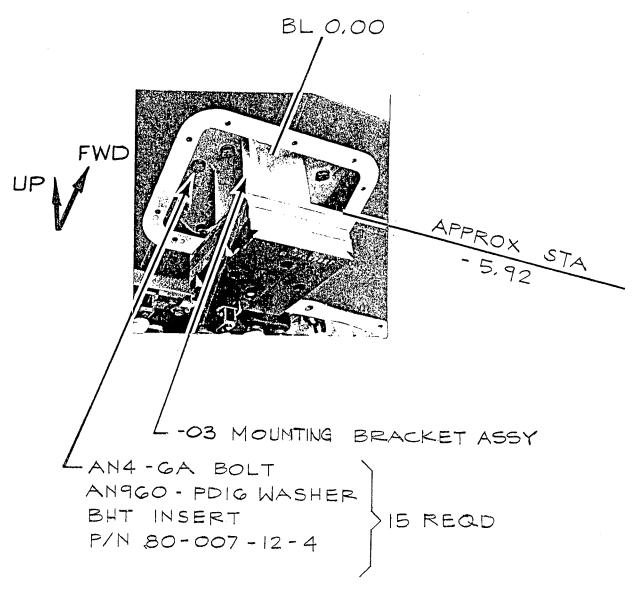
ARIGINA







B OSUV8
B32-13002
FLIR INSTALLATION
SHEET 40F



-21 SHIM

(BETWEEN MOUNTING BRACKET

\$ AIRCRAFT STRUCTURE)

AIRCRAFT STRUCTURE AT WL 22.00

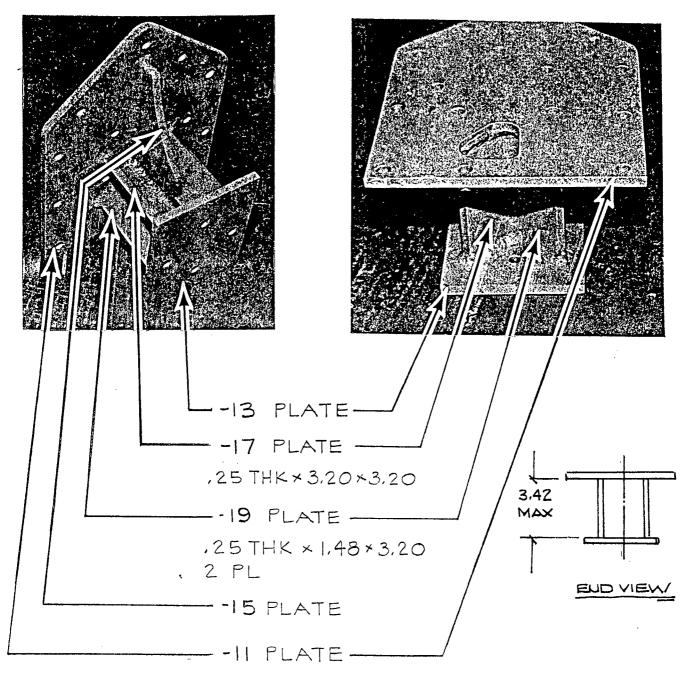
MOUNTING BRACKET ATTATCHMENT
VIEW LOOKING UP

FLIR INSTALLATION

A OSUV8, B32-13002

SCALE NONE REV.

SHEET 5 OF



-03 MOUNTING BRACKET ASSY

MATL: .25 THK 6061-T511 QQ-A-250/11

WELD PER MIL-STD-2219 CLASS &

FLIR INSTALLATION

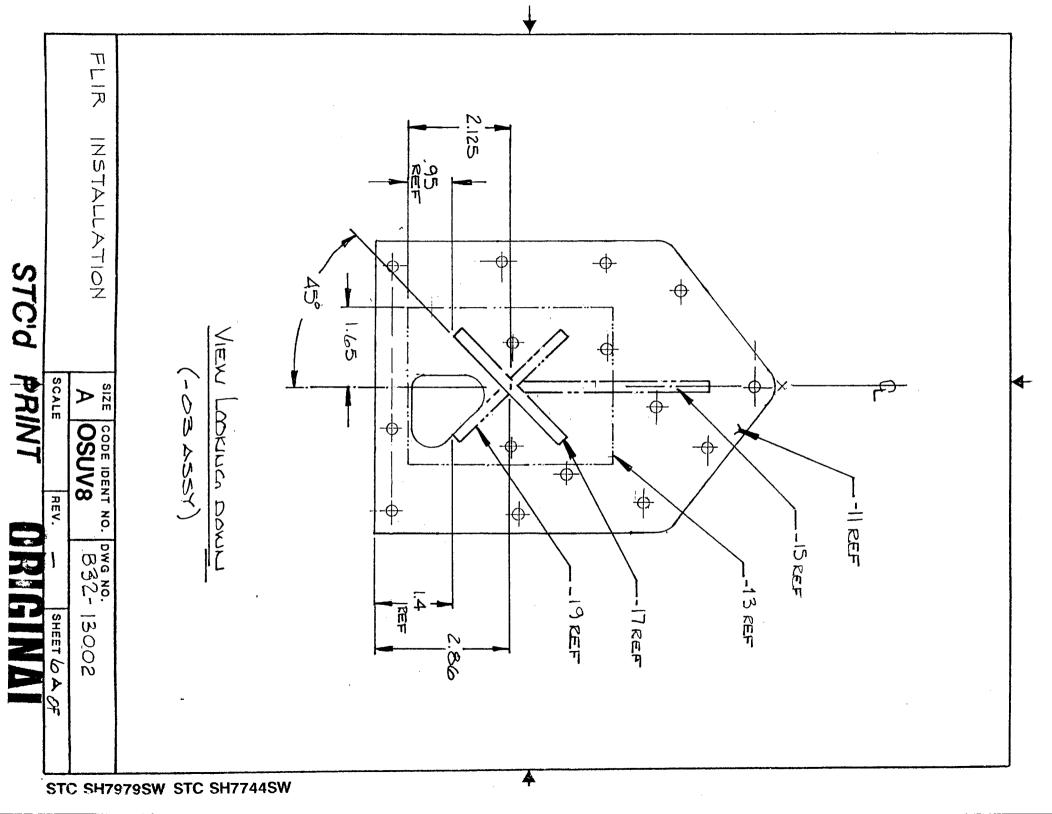
SIZE CODE IDENT NO. DWG NO. OSUV8

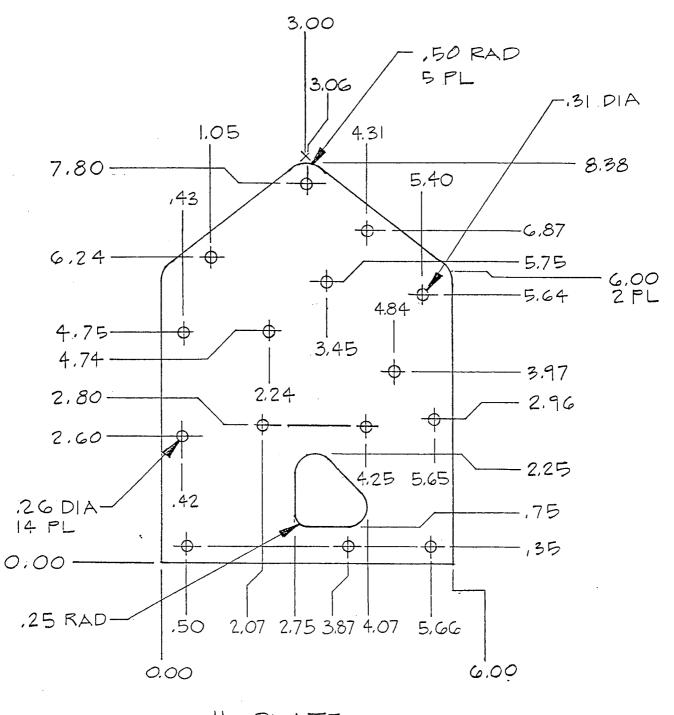
B32-13002

SCALE NONE REV.

SHEET 6 OF

STC'd





-|| PLATE

MATL: .25 THK GOGI-T511

QQ-A-250/1

FLIR INSTALLATION

SIZE CODE IDENT NO. DWG NO.

A OSUV8

SCALE 1/2 REV. — SHEET 7

STC'd PRINT

ORIGINAL

,50

-15 PLATE MATL: .25 THK 6061-T511

QQ.A-250/11

FLIR INSTALLATION

SIZE CODE IDENT NO. DWG NO. OSUV8

4.00

B32-13002

SCALE 1/2

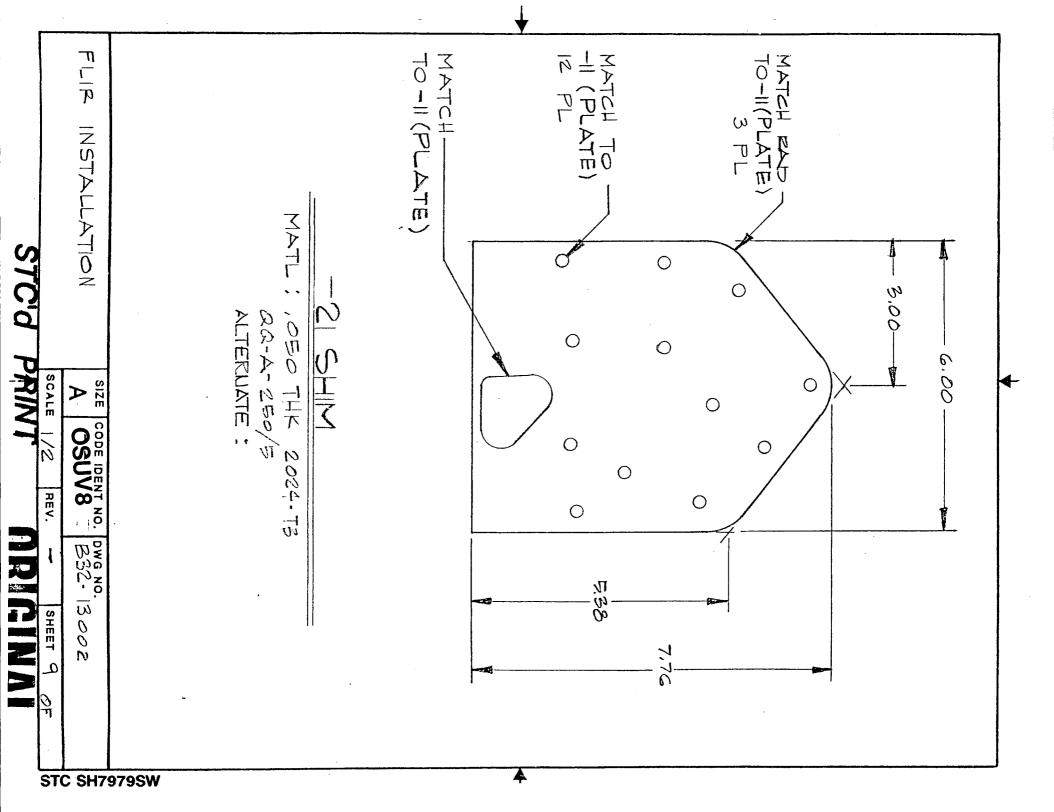
REV.

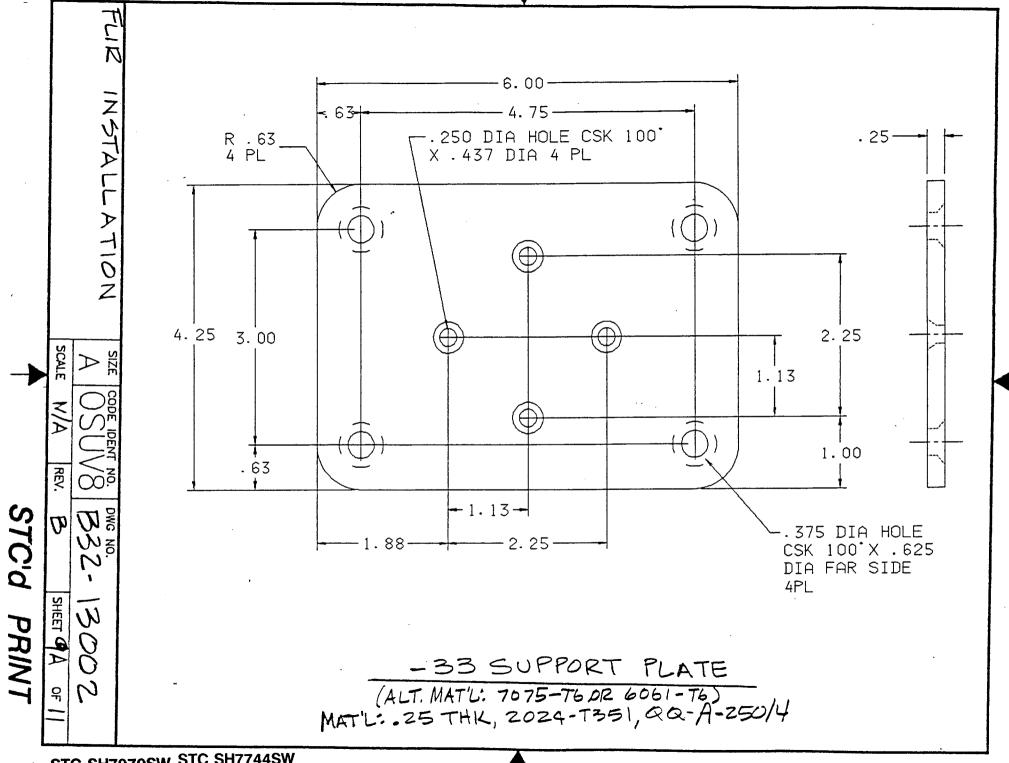
4.00 RAD

8 of

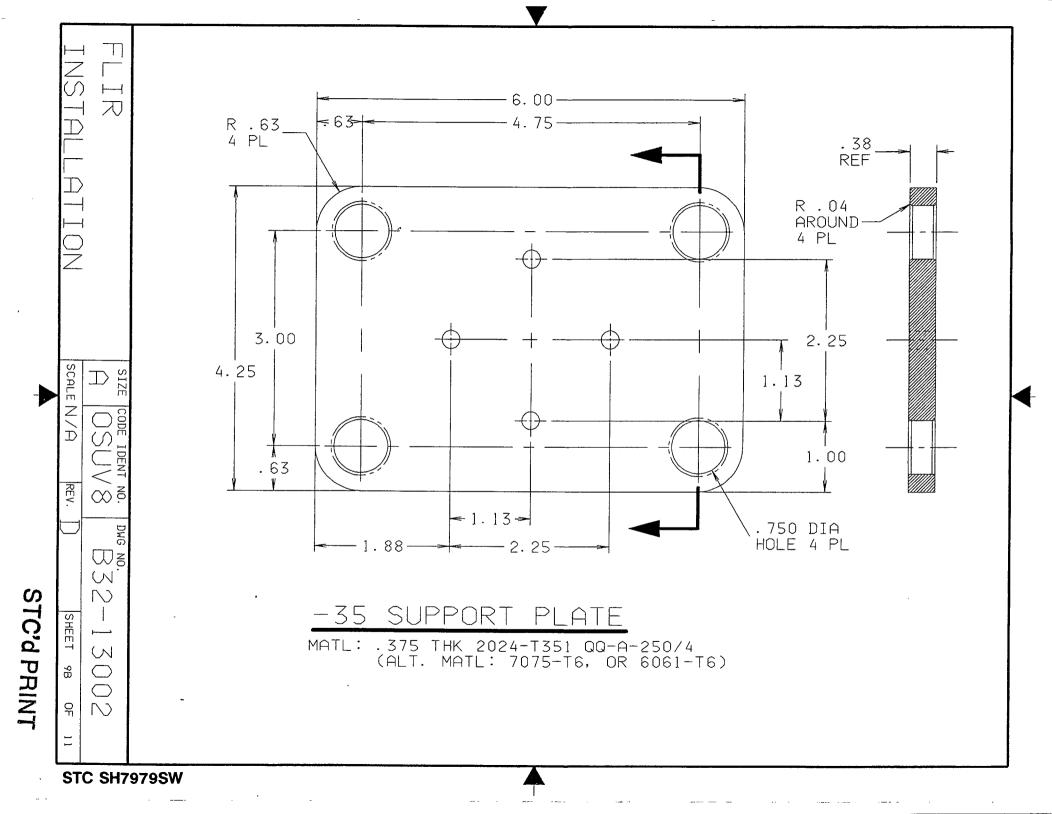
PRINT STC'd

STC SH7979SW STC SH7744SW



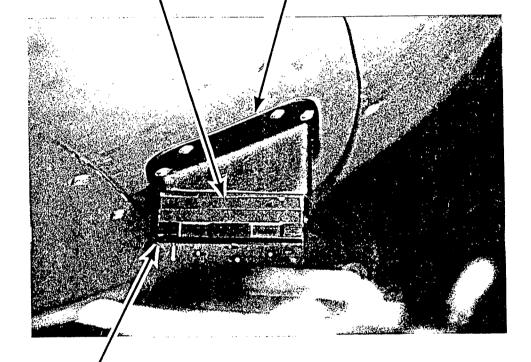


STC SH7979SW STC SH7744SW



-23 SHIM-.38 THK, 2024-T3 QQ-A-250/5 SAME AS - 13 PLATE, 2 REQD ALTERNATE: .75 THK 6061-T6 QQ-A-250/11 SAME AS-13 PLATE.

-31 SHROUP AN525 -8R8 SCREWS 8 REQD PICK-UP EXISTING NUTPLATES



FLIR DOVETALE BLOCK P/N 15042791 AN 4-15A BOLT AN 960-PD416L WASHER 4 REQD FWD

14.0

FLIR INSTALLATION

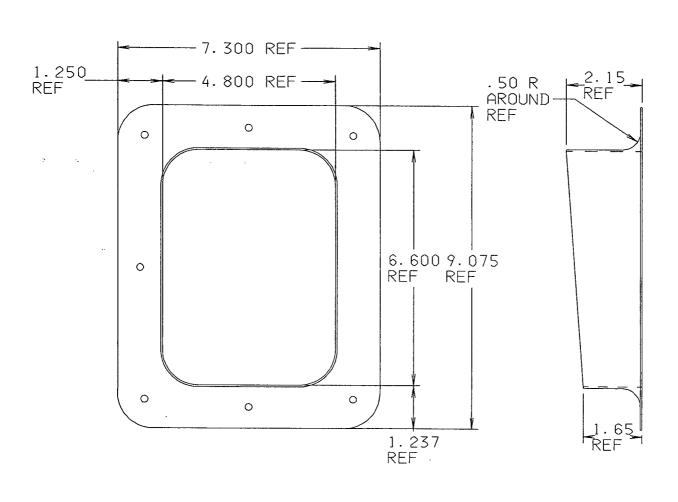
SIZE CODE IDENT NO. DWG NO. OSUV8

B32-13002

UP

SCALE NONE REV.

SHEET 10 OF



-31 SHROUD 8

MATL: 1 PLY FR8600-120 4 PLY FR8600-7781 MFG PER B32-13002-31T TOOL ALL DIM APPROX LAYUP PER TOOL TRIM TO FIT AT INSTALL

FLIR
A OSUV8 B32-13002

INSTALLATION SCALE NONE REV. D SHEET 11 OF 11

	ECO 1 4098
R	ECR 🗆

ECO 🗌	ECR 4048	3-21-94	REQUESTED BY	PREMIE	R OF
REASON FOR		DOCUMENTS AFFECTED	SYSTEM	MATLDIS	POSITION
שנו ד/נוחמקם סאו ד/נוחמקם	PAUC MENT	B32-13002 FLIR		REWORK	STORE MFG.
PRODUCT IMP/ MARKED PRINTS ATTA		WETALL ATION	SERIAL NO EFF	SCRAP	
YES DISPOSITION / COMME	NO 🎉	MASTALEMATION		USE AS IS	
REV IS "D"	14/1000		STC SH7 THIS IS AN	9795W UNINCORPORA	TED ECO
5H 10 ADD TO -	γ,γωγ,γ	ECR 598			
KUU IU -	Z3 SHIM				
ALTERNATO	E: 075-T6 , QQ [.]	-A-225/9 SAM	IE AS -13	PLATE	
	· · · ·				
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					<i>;</i> *
·					
			T	OLIANOS OLIAGOISIO	ATION
IMP <i>A</i>	YES NO	I ACTION	PRIORITY 1	CHANGE CLASSIFIC	A HON
INTERCHANGEABILITY DRAWING CHANGE		YES NO	1 1 .	☐ PMA MAJOR ☐	TSO MAJOR
SPECIFICATION SPARES		U 42	<u> </u>	PMA MINOR	TSO MINOR
	DATE PROJECT	ENG DATE	QA A A	DATE FAA SUBMIT	TAL
PREPARED BY	13/21/20 1		K) V M. V	3/25/011 \1 EC	
PREPARED BY DLK CHECKED BY	3/8/44	DATE	D.L. Pulse PROD SPRT	3/25/94 YES DATE ENGING (A)	PR DATE,

00
41659

ECO ECR 4659	EFF DATE OF CHG	REQUESTED BY ECR's 865,904		PAGE DF
REASON FOR CHANGE	DOCUMENTS AFFECTED	SYSTEM MULTIPLE	MATL DISPOSI	TION
PRODUCT IMPROVEMENT	134-13000 B32-13002	TIOCTIT EE	REWORK 5	IN STORE MFG.
MARKED PRINTS ATTACHED	302 .0002	SERIAL NO EFF	SCRAP	
YES NO			USE AS IS	
DISPOSITION/COMMENTS THIS EC	CO IS UNINCORPORA	TED.		
134-13000 IS REV "-" STC SH B32-13002 IS REV "D" STC SH	18612SW 17979SW, SH7744SW			
DESCRIPTION				
134-13000 - REFERENCE ECR	8 865.			
SHEET 3 ZONE 1D - WAS NO	3 (.213)DIA HOL	E (PER ECO 442	1)	
	64 (.265)DIA HOL		202511 711 2 4 2	E (D
CHANGE ALL REFERENCES TO	AH5U3-6-6 SCREW	/ 10 AH503-6-8 S	SCREW IN P/L A	ND F/D.
				ŀ
B32-13002 - REFERENCE ECR			00 7111	i
SHEET 8 — CHANGE MATL, OF CHANGE HORIZONT	13 PLATE FRUM TAL DIMENSION 1.		. UU THK.	
IMPACT YES NO	PROCUREMENT	PRIORITY CH	HANGE CLASSIFICA	TION
INTERCHANGEABILITY ■ □ DRAWING CHANGE □ ■	ACTION YES NO	1	■ RECORD A MAJOR □ TSO M	1AJOR
SPECIFICATION SPARES		5 🖬	A MINOR TSO M	
PREPARED BY DATE PROJECT	ENG DATE C	DA . / J	TE FAA SUBMIT	TAL
P. VANOVER 12/6/95		July 12	7/95 YES	
CHECKED BY DATE MFG	DATE	ROD SPRI DA	TE ENGRG APPR	DATE
Kich Ken & 0600Chs			W. Hamake	147/95

FORM 003-11300-005

ENGINEERING CHANGE ORDER REQUESTED BY DATE OF CHANGE ECO NO. SHEET PREMIER AVIATION, INC OF ECR 1227 2621 AVIATION PARKWAY, GRAND PRAIRIE, TX 75052 6457 FSCM-OSUV8 **APPROVALS** FAA SUBMITTAL STC(s) AFFECTED: SH7979SW, SH7744SW DATE PREPARED BY YES Χ NO E. CELESTINO 08/27/99 REASON FOR CHANGE DOCUMENT AFFECTED FACILITATE FAB. DESIGN ERROR REVISION CHECKED DATE 13/ CUSTOMER CHANGE DRAFTING ERROR NUMBER IS WAS DATE ADDITION DESIGN INFO B32-13002 03/07/94 DESIGN CHANGE QUAL DATE OTHER TITLE FLIR INSTALLATION MANUE DATE TYPE CLASSIFICATION INCORPORATED RECORD PMA MINOR TSO MINOR EMOZINEERIL DAJE UNINCORPORATED STC PMA MAJOR TSO MAJOR INCORPORATOR: USE NEXT AVAILABLE DESCRIPTION: (NOTE TO SHEET 1 NOTES X. GENERAL SHOP PRACTICES PER AC43.13-1/-2. PRIME SHEET METAL PARTS WITH MIL-P-23377C EPOXY PRIMER OR MIL-TTP-1757 ZINC CHROMATE. $\frac{\text{WAS}}{\text{.015-.031}}$ 1. REMOVE ALL BURRS, BREAK ALL EDGES / CORNERS .015-.031 EXCEPT AS NOTED. UNLESS OTHERWISE SPECIFIED, PRIME ALUMINUM DETAIL PARTS PER PREMIER SPECIFICATION 008-93005. 1. FOR SHEET METAL PARTS, REMOVE ALL BURRS AND WAS BREAK ALL EDGES/CORNERS . 01-. 03, EXCEPT AS NOTED. 7. IDENTIFY PARTS PER PREMIER IDENTIFICATION AND MARKING PROCEDURES 115-12112 (PARA, 2, 1/2, 2). WAS 3. CHEM-FILM (ALODINE) PER MIL-C-5541. REMOVED. IS 3. UNLESS OTHERWISE SPECIFIED, CHEM FILM (ALODINE) ALUMINUM DETAIL PARTS PER PREMIER SPECIFICATION 008-93003. SHEET 9A WAS IS 250 DIA HOLE CSK 100° .250 DIA HOLE CSK 100° X . 437 DIA 4 PL X .500 DIA 4 PL \bigcirc \bigcirc (0)(0)(0) (\bigcirc) (0)-.375 DIA HOLE CSK 100° X .750 .375 DIA HOLE CSK 100 X 625 DIA FAR SIDE DIA FAR SIDE